

**UNITED STATES DEPARTMENT OF COMMERCE****Patent and Trademark Office**

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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09/000, 824 12/30/97 AMARASEKERA

J 60SI-1890

IM22/0811

EXAMINER

MICHELLE BUGBEE
GENERAL ELECTRIC COMPANY
ONE PLASTICS AVENUE
PITTSFIELD MA 01201

LU, C

ART UNIT

PAPER NUMBER

1713

DATE MAILED:

08/11/00

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary	Application No. 09/000,824	Applicant(s) Amarasekera et al.
	Examiner C. Caixia Lu	Group Art Unit 1713

Responsive to communication(s) filed on Jul 7, 2000

This action is **FINAL**.

Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

A shortened statutory period for response to this action is set to expire 3 month(s), or thirty days, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

Disposition of Claims

Claim(s) 1-30 is/are pending in the application.

Of the above, claim(s) _____ is/are withdrawn from consideration.

Claim(s) _____ is/are allowed.

Claim(s) 1-30 is/are rejected.

Claim(s) _____ is/are objected to.

Claims _____ are subject to restriction or election requirement.

Application Papers

See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.

The drawing(s) filed on _____ is/are objected to by the Examiner.

The proposed drawing correction, filed on _____ is approved disapproved.

The specification is objected to by the Examiner.

The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

All Some* None of the CERTIFIED copies of the priority documents have been

received.

received in Application No. (Series Code/Serial Number) _____.

received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

*Certified copies not received: _____.

Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

Notice of References Cited, PTO-892

Information Disclosure Statement(s), PTO-1449, Paper No(s). _____

Interview Summary, PTO-413

Notice of Draftsperson's Patent Drawing Review, PTO-948

Notice of Informal Patent Application, PTO-152

--- SEE OFFICE ACTION ON THE FOLLOWING PAGES ---

DETAILED ACTION

Continued Prosecution Application

1. The request filed on July 7, 2000 for a Continued Prosecution Application (CPA) under 37 CFR 1.53(d) based on parent Application No. 09/000,824 is acceptable and a CPA has been established. An action on the CPA follows.

Claim Objections

2. Claim 3 is objected to because of the following informalities: a conjunction word such as --or-- is missing in the front of "OH" in line 11. Appropriate correction is required.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

4. Claims 17-30 are rejected under 35 U.S.C. 102(a) as being anticipated by Matsushita et al. (EP 0 787 772).

Claims 1-7 and Examples 1 and 2 of Matsushita et al. encompass the instant claims.

Claim Rejections - 35 USC § 103

5. Claims 1-17, 19-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dams (US 4,355,129) in combination of Milbert (US 3,821,140) and Milbert.

The instant claims are directed to a composition for high voltage insulation comprising a silicone polymer, a reinforcing filler, an anti-tracking agent and flame retardant (aluminum hydroxide), a coupling agent (silane), a curing agent (free radical initiator), an extending filler (non-reinforcing filler), a processing fluid (silicone oil), and optionally, a mold release agent, a coloring agent or heat resistive agent.

Dams teaches a composition for high voltage insulation comprising a silicone polymer (col. 1, line 50 to col. 2, line 20), a reinforcing filler polymer (col. 2, line 25), an anti-tracking and flame retardant agent (col. 3, lines 20-28), a coupling agent (col. 2, lines 38-49), a curing agent (col. 2, line 62 to col. 4, line 5), an extending filler agent (col. 2, line 24-28), a processing fluid (col. 2, lines 16-17 and 43-44), a mold release agent (col. 2, lines 16-17 and 43), a coloring agent (col. 3, lines 32-37), and heat resistant agent (col. 3, lines 21-23).

Although Dams' silicone polymer contains dimethyl siloxy, methylvinyl siloxy and alkylhalogenoalkyl siloxy units, Dams does not particularly teach the silicone polymer containing hydroxy or alkoxy ending group.

Milbert teaches a polysiloxane composition for electric insulation material comprising all the components as claimed in the instant claims except the alumina trihydrate anti-tracking agent (col. 1, line 35 to col. 4, line 10 and Examples).

Alumina trihydrate is one of the most preferred anti-tracking agents used in the high voltage insulation silicone material.

When the silicone polymer containing both vinyl and alkoxy/hydroxy groups, the silicone polymer can bond with the coupling agent through condensation and free radical polymerization reaction, the silicone polymer might also react with the oxide-type filler directly to enhance the bonding with the filler.

Thus, it would have been obvious for a skilled artisan at the time the invention is made (i) to add Dams' alumina trihydrate to Milbert's composition to provide a high voltage insulation material with much improved anti-tracking property; or (ii) to employ Milbert's silicone polymer in Dams' composition to provide a high voltage insulation material with improved bonding between the silicone polymer and the fillers such as silica and alumina.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Caixia Lu (Ph. D.) whose telephone number is (703) 306-3434. The examiner can normally be reached from 9:00 am to 3:30 pm.

If attempts to reach the examiner by telephone are unsuccessful and the matter is urgent, the examiner's supervisor, David Wu, can be reached at (703) 308-2450. The fax phone numbers for the organization where this application or proceeding is assigned are:
(703) 305-5408 (official)
(703) 305-3599 (official after final)
(703) 305-5885 (unofficial).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0651.

CL
August 9, 2000

David Wu
DAVID W. WU
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1700